

Special Issue

The Interplay of Energy Consumption and the Digital Economy in the Pursuit of a Low-Carbon Transition—2nd Edition

Message from the Guest Editors

Reducing energy consumption is essential for sustainable economic development and for balancing economic and environmental efficiency. As the climate impacts of traditional energy use intensify, low-carbon transformation has become critical for both sustainable growth and energy structure upgrading. In this process, the digital economy plays an increasingly important role, particularly in promoting energy efficiency, supporting energy system transformation, and advancing carbon neutrality. This Special Issue focuses on the interaction between energy consumption and the digital economy, and their roles in facilitating low-carbon transition across countries. We aim to explore how the digital economy can curb excessive energy consumption and support low-carbon development and sustainability strategies. We welcome original research and review articles on topics including the digital economy and new energy systems, digital applications in energy transition, pathways to carbon neutrality under digital conditions, urban and rural energy digitalization, and the integration of energy structure transformation with the digital economy.

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